

Fig. 1

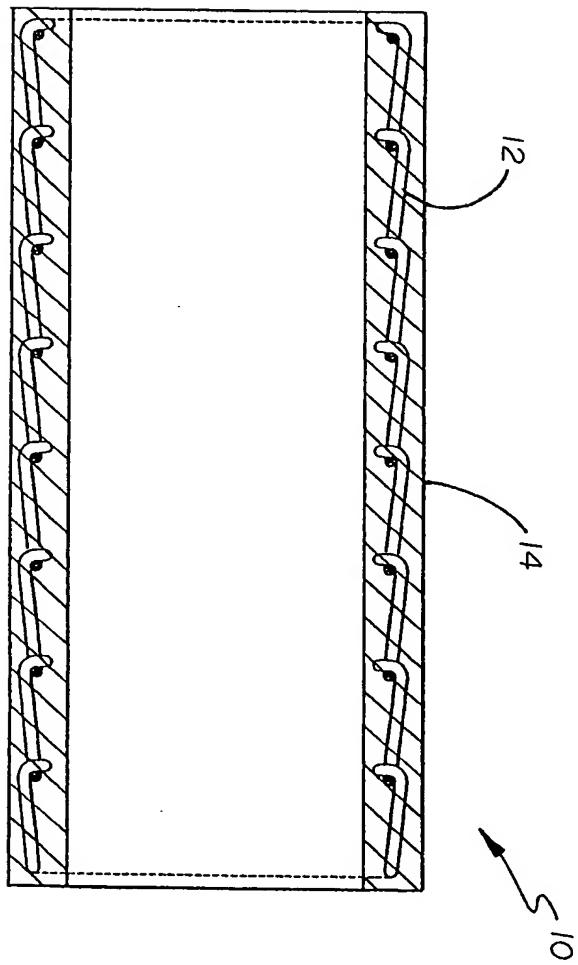


Fig. 2

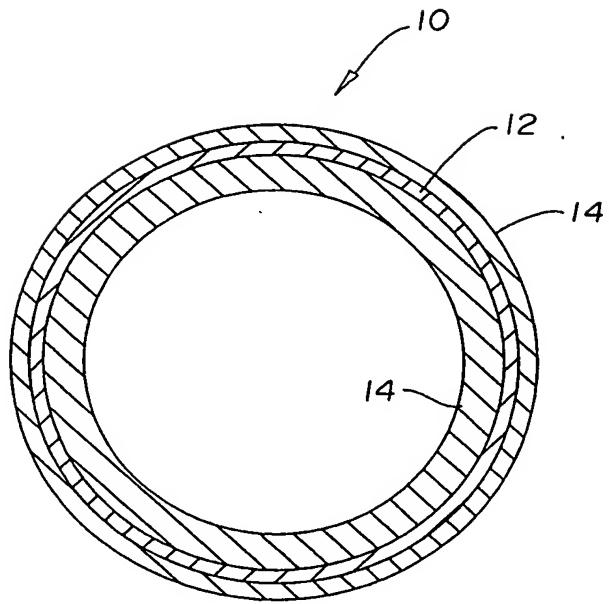


Fig. 3

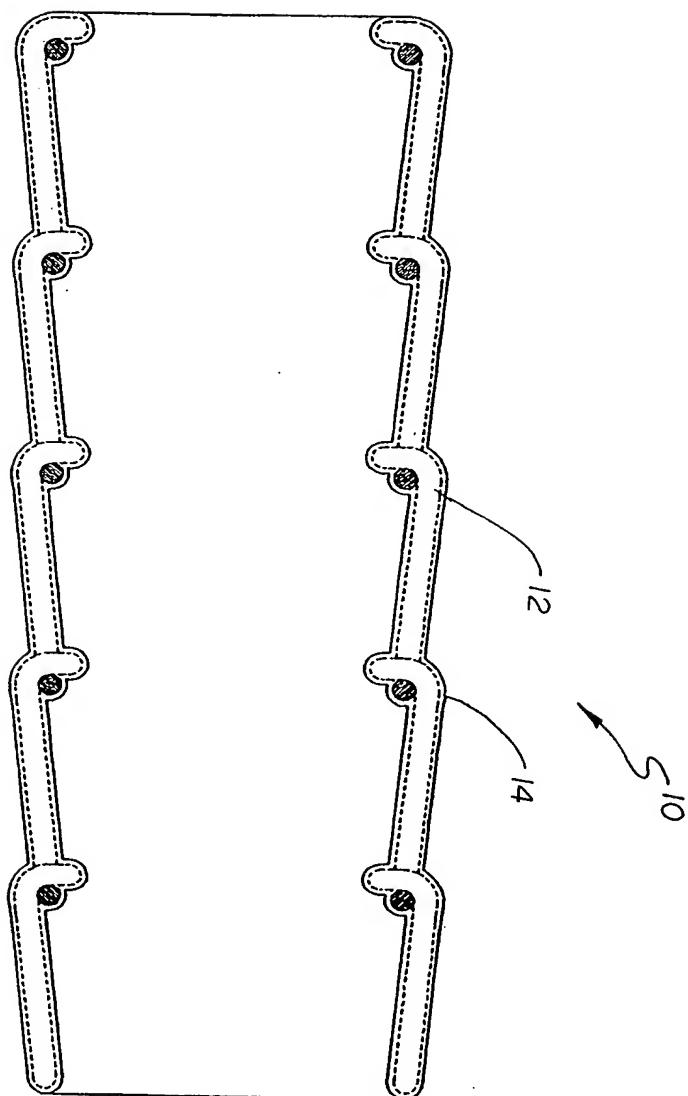


Fig. 4

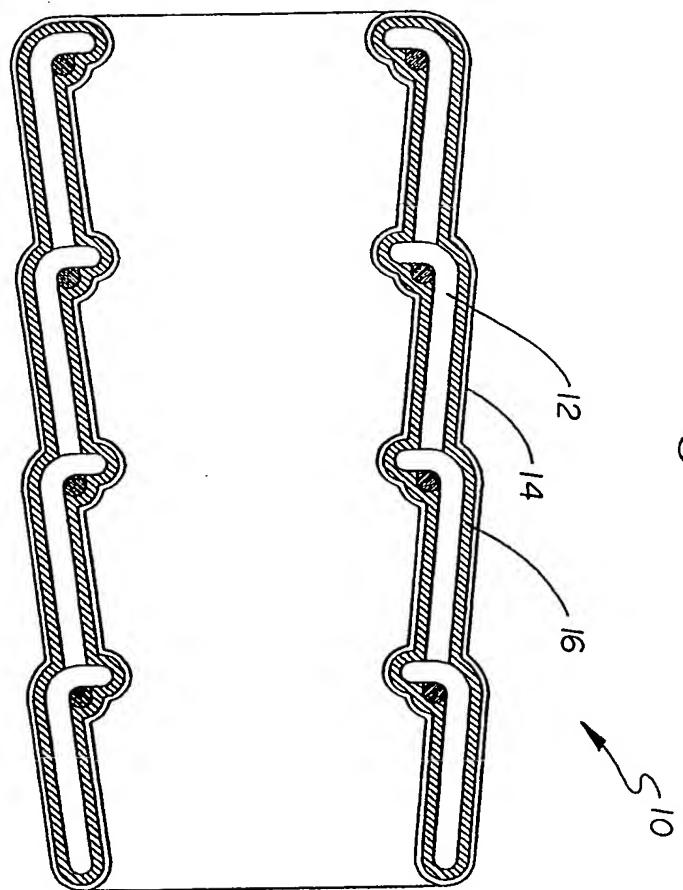
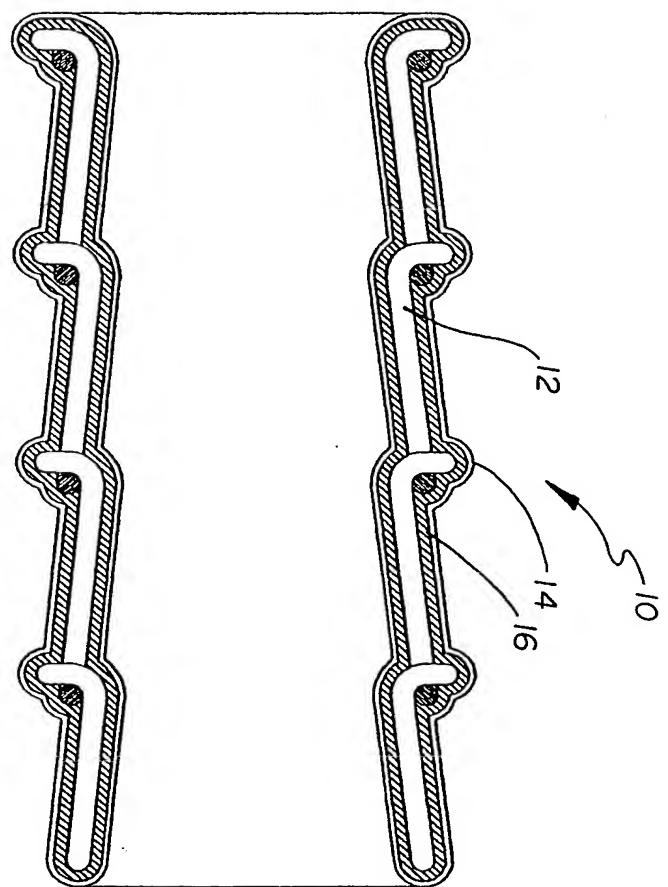


Fig. 5



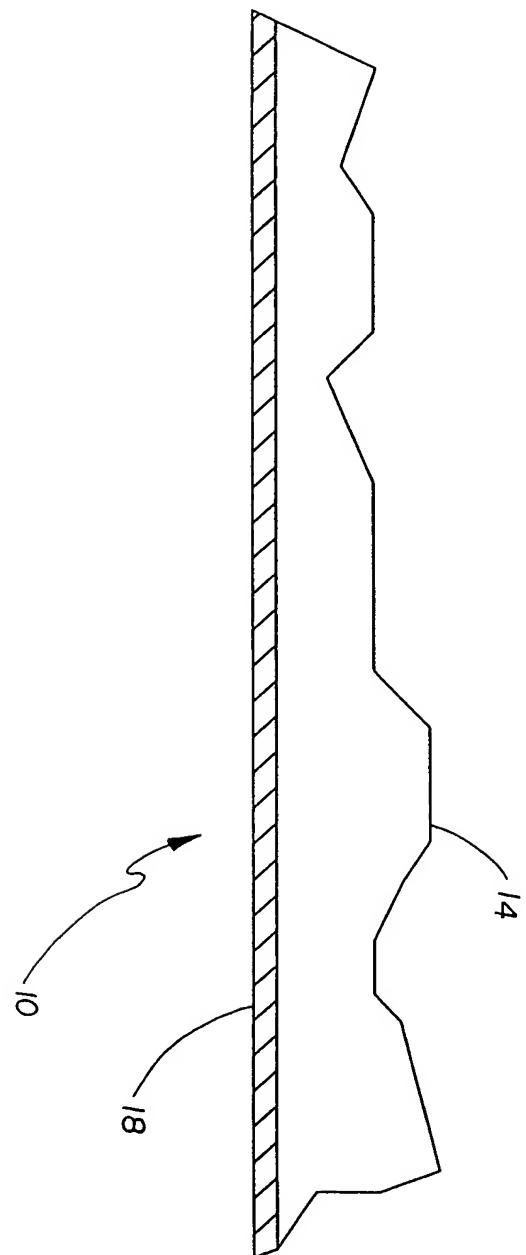


Fig. 6

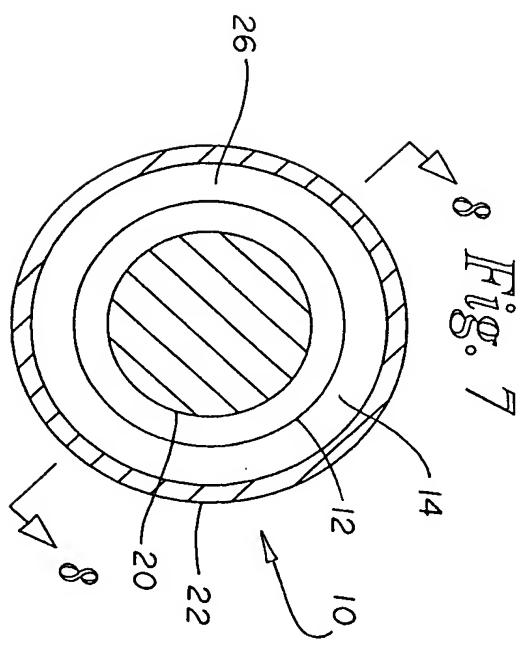
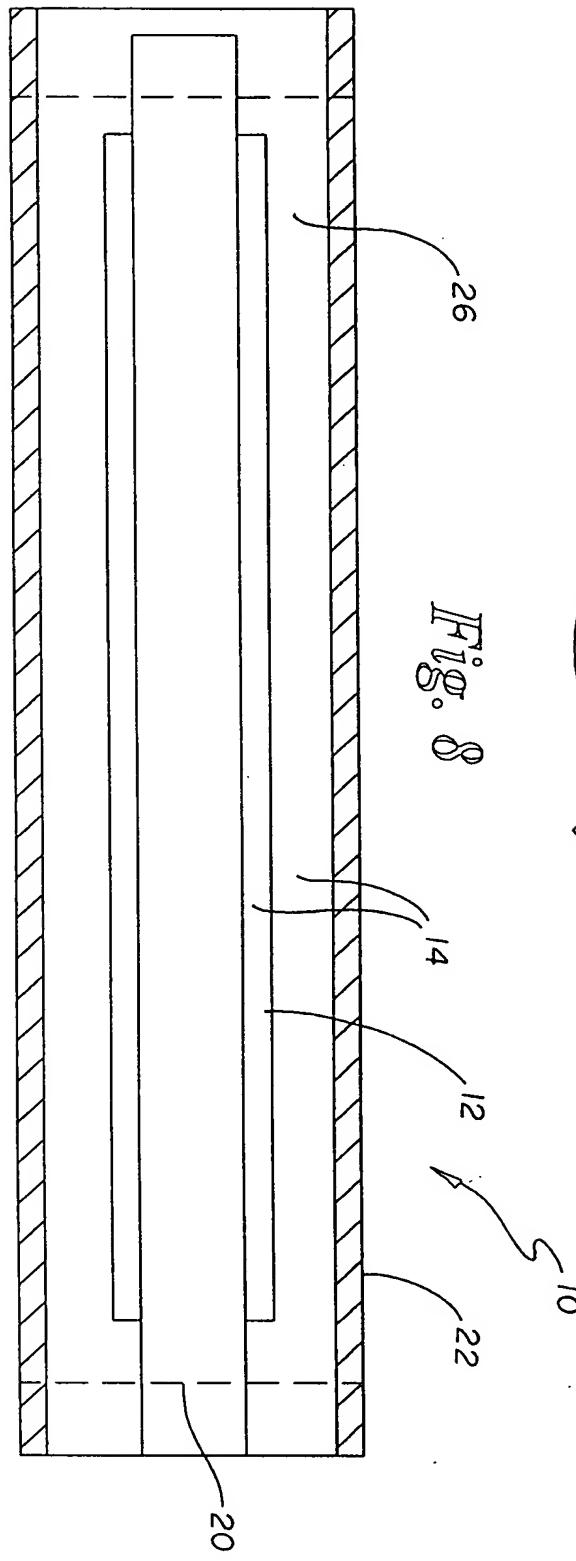


Fig. 9

Scheme 1

1. Mucopolysaccharide (water soluble) + Cationic Moiety →
organic solvent soluble mucopolysaccharide
2. organic solvent soluble Mucopolysaccharide + chemical reaction in
organic solvent → chemically modified mucopolysaccharide
modified in organic solvent (O-MPSAC)
3. (O-MPSAC) + de-complexation → O-MPSAC soluble in water

Fig. 10

Scheme 2

1. Mucopolysaccharide (water soluble) + 1st-chemical reaction →
Mucopolysaccharide chemically modified in water (W-MPSAC)
2. W-MPSAC (water soluble) + Cationic Moiety → complexed
organic soluble W-MPSAC
3. complexed organic soluble W-MPSAC + 2nd chemical reaction + de-
complexation → chemically modified Water soluble-
mucopolysaccharide